



ECIT | The Institute of Electronics,
Communications and
Information Technology



PhD Opportunities

Wireless Communications Research Group

Professor William Scanlon

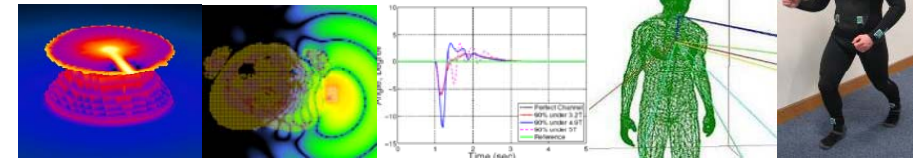
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www.ee.qub.ac.uk/wireless/

Wireless Comms Research Activities

- Radio propagation / channel modelling
- Antennas: special focus on integrated / wearable
- Wireless protocol research: QoS-enabled low-power protocols, cross-layer approaches
- Body-centric & vehicular networks
- Wireless sensor nets and wireless network control
- RFID, localisation and tracking
- Bioelectromagnetics / RF safety



Why join the Radio Comms group?

- Working on leading-edge applications of **short-range radio**:
 - Avionics ('fly-by-wireless')
 - Telematics ('Vehicular Intelligent Transportation systems')
 - Medical device communications (wearable sensors etc)
 - Defense / Security (new apps for secure personal communications and tracking systems)
- Focus can be on analytical (maths), experimental, simulation (e.g. matlab or own software) or any combination to suit your skills / aspirations.
- High quality publication output (helps you get your PhD!)
- Well funded – both government and industry
- Great job opportunities



Specific PhD Opportunities

- Game Theoretic Models of Cooperative Vehicular Networks for Intelligent Transport Systems (**Fully funded** by DEL for UK residents – Note: Deadline for applications 28 Feb. 2011)
- Disposable radio technology: creating new opportunities
- Real-time wireless localisation for team sports using body-centric communications (in collaboration with UK Sport / Imperial College)
- Robust medical device networking using dual mode radios
- Wideband conformal antenna structures for confined surface wave communications
- Adaptive wireless network architectures for fault-tolerant systems

Want to know more? Contact Professor William Scanlon:
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